

Monitoring and Evaluation Indicators to be Used within The President's Malaria Initiative

19 October 2007

Indicators for Use in PMI - This table includes the full set of indicators to be used for monitoring and evaluation of PMI. To adapt the table for a country, please delete full rows associated with indicators that will *not* be for PMI purposes in that country. When selecting indicators it will be useful to consider not only how information will be collected but also how the information will be used to improve program activities, who would be interested in this information and what decisions could be made based on this information. M&E advisors will work with teams to select indicators and to adapt the table. The four right-hand columns now offer suggested data sources, dates for data collection, frequency of reporting and designated parties responsible, but these should be adapted according to country-specific M&E plans and timelines.

USAID Malaria Indicators - Eleven of these malaria program indicators (designated as coming from PMP) are recommended to come from the Mission's Performance Monitoring Plan (PMP). Six of these PMP indicators (designated as coming from PMP & OP) will be included as OP indicators in FY 08 for reporting within the FACTS system.

Evaluation Indicators – Impact		Definition	Data source	Dates for data collection	Frequency of reporting	Responsible Party
Impact 1	All-cause under-five mortality rate	All-cause child mortality rate, ages 0–4 years, expressed as deaths per 1000 live births, or ${}_5q_0$	DHS survey, MICS survey or census	<i>Give dates for planned surveys</i>	<i>Baseline and follow-up</i>	
Impact 2	Proportion of deaths attributed to malaria among children under five nationally	Number of deaths to children under five attributed to malaria through verbal autopsy for the period three years prior to survey/Deaths to children under five reported for the period three years before survey	<i>Nationally representative VA survey as part of surveys large enough to estimate ${}_5q_0$</i>	<i>Give dates for planned VA surveys</i>	<i>Baseline, follow-up</i>	
Impact 3	Proportion of deaths attributed to malaria among children under five in a demographic surveillance site <i>In a case where this indicator is selected, we suggest that a full MIS be implemented in DSS populations.</i>	Number of deaths to children under five attributed to malaria through verbal autopsy according to DSS protocol/Deaths to children under five within a demographic surveillance site	<i>DSS</i>	<i>Discuss with DSS</i>	<i>Discuss with DSS</i>	

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Evaluation Indicators – Impact		Definition	Data source	Dates for data collection	Frequency of reporting	Responsible party
Impact 4	Proportion of children 6–59 months old with moderate or severe anemia	Children aged 6-59 months with moderate anemia (hemoglobin 7.0 – 9.9 g/dl) or severe anemia (hemoglobin < 7.0 g/dl)/Children aged 6-59 months who had hemoglobin measurements from nationally representative survey	DHS survey, MIS survey	Give dates for planned coverage surveys	Baseline, (midpoint) and follow-up	
Impact 5	Proportion of children under five with malaria infection	Children under five with malaria infection detected by microscopy/Children under five tested for parasitemia from nationally representative survey	MIS survey	Give dates for planned coverage surveys	Baseline, (midpoint) and follow-up	
Evaluation Indicators – Outcome		Definition	Data source	Dates for data collection	Frequency of reporting	Responsible party
Outcome 1	Proportion of households with at least one ITN	Number of households that own at least one ITN/Number of households surveyed	DHS survey, MIS survey, MICS survey	Give dates for planned coverage surveys	Baseline, (midpoint) and follow-up	
Outcome 2 Will come from PMP	Proportion of households with a pregnant woman or children under 5 with at least one ITN	Number of households with a pregnant woman or child < 5 that own at least one ITN/Number of households with a pregnant woman or child <5 surveyed	DHS survey, MIS survey, MICS survey	Give dates for planned coverage surveys	Baseline, (midpoint) and follow-up	MISSION

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Evaluation Indicators – Outcome		Definition	Data source	Dates for data collection	Frequency of reporting	Responsible party
Outcome 3	Proportion of population of all ages who slept under an ITN the previous night	Number of household residents and visitors who slept under an ITN the previous night/Total number of residents and visitors who slept in surveyed households the previous night	<i>DHS survey, MIS survey</i>	<i>Give dates for planned coverage surveys</i>	<i>Baseline, (midpoint) and follow-up</i>	
Outcome 4 Will come from PMP	Proportion of children under five years old who slept under an ITN the previous night	Number of children under 5 years old who slept under an ITN the previous night/Total number of children under 5 years who slept in surveyed households the previous night	<i>DHS survey, MIS survey, MICS survey</i>	<i>Give dates for planned coverage surveys</i>	<i>Baseline, (midpoint) and follow-up</i>	MISSION
Outcome 5	Proportion of pregnant women who slept under an ITN the previous night	Number of pregnant women who slept under an ITN the previous night/Total number of pregnant women who slept in surveyed households the previous night	<i>DHS survey, MIS survey, MICS survey</i>	<i>Give dates for planned coverage surveys</i>	<i>Baseline, (midpoint) and follow-up</i>	
Outcome 6	Proportion of households reporting that their compound/household was sprayed with a residual insecticide in the last 12 months	Number of households that report that their house/compound/unit was sprayed with a residual insecticide in the last 12 months/ All households in the survey area	<i>DHS survey, MIS survey,</i>	<i>Give dates for planned coverage surveys</i>	<i>Baseline, (midpoint) and follow-up</i>	

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Evaluation Indicators – Outcome		Definition	Data source	Dates for data collection	Frequency of reporting	Responsible party
Outcome 7	Proportion of targeted houses adequately sprayed with a residual insecticide in the last 12 months <i>(adequately to be defined according to MERG criteria)</i>	Number of occupied houses in the IRS program target area adequately sprayed with a residual insecticide in the last 12 months/Total number of occupied houses in target area	<i>Activity reports</i>	On-going	Annually	
Outcome 8	Proportion of children under 5 who slept under an ITN the previous night or in a house sprayed with IRS in the last 6 months	Number of children under 5 years old who spent the previous night under an ITN or in a house that was sprayed with IRS in the last 6 months/Total number of children under 5 years who slept in surveyed households the previous night	<i>DHS survey, MIS survey, MICS survey</i>	<i>Give dates for planned coverage surveys</i>	<i>Baseline, (midpoint) and follow-up</i>	
Outcome 9	Proportion of pregnant women who slept under an ITN the previous night or in a house sprayed with IRS in the last 6 months	Number of pregnant women who spent the previous night under an ITN or in a house that was sprayed with IRS in the last 6 months/Total number of pregnant women who slept in surveyed households the previous night	<i>DHS survey, MIS survey, MICS survey</i>	<i>Give dates for planned coverage surveys</i>	<i>Baseline, (midpoint) and follow-up</i>	

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Evaluation Indicators – Outcome		Definition	Data source	Dates for data collection	Frequency of reporting	Responsible party
Outcome 10 Will come from PMP	Proportion of women who have received two or more doses of IPTp during their last pregnancy in the last two years	Number of women who received two or more doses of recommended antimalarial drug treatment as IPTp during their last pregnancy that led to a live birth within the last two years/Total number of women surveyed who had a live birth in the last two years	<i>DHS survey, MIS survey, MICS survey</i>	<i>Give dates for planned coverage surveys</i>	<i>Baseline, (midpoint) and follow-up</i>	MISSION
Outcome 11 Will come from PMP	Proportion of children under five years old with fever in the last two weeks who received treatment with ACTs within 24 hours of onset of fever	Number of children under five who had a fever in the two weeks prior to a survey who received ACTs for treatment within 24 hours of onset of fever/ Total number of children under five who had a fever reported for the two weeks prior to a survey	<i>DHS survey, MIS survey, MICS survey</i>	<i>Give dates for planned coverage surveys</i>	<i>Baseline, (midpoint) and follow-up</i>	MISSION
Outcome 12	Proportion of children under five years old with fever in the last two weeks who received treatment with an antimalarial according to national policy within 24 hours of onset of fever	Number of children under five who had a fever in the two weeks prior to a survey who received an antimalarial according to national policy at the time of survey for treatment within 24 hours of onset of fever/ Total number of children under five who had a fever reported for the two weeks prior to a survey	<i>DHS survey, MIS survey, MICS survey</i>	<i>Give dates for planned coverage surveys</i>	<i>Baseline, (midpoint) and follow-up</i>	

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Sentinel Site Indicators – Outpatients		Definition	Data source	Dates for data collection	Frequency of reporting	Responsible party
Sentinel Site 1	Number of outpatients	Total number of outpatients, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 2	Number of clinical outpatient cases of malaria	Number of clinical outpatient cases of malaria, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 3	Number of blood slides examined for malaria from outpatients	Total number of blood slides examined for malaria from outpatients, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 4	Number of slide-confirmed outpatient cases of malaria	Number of slide-confirmed outpatient cases of malaria, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 5	Number of RDTs examined for malaria from outpatients	Total number of RDTs, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 6	Number of RDT-confirmed outpatient cases of malaria	Number of RDT – confirmed outpatient cases of malaria, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site Indicators – Inpatients		Definition	Data source	Dates for data collection	Frequency of reporting	Responsible party
Sentinel Site 7	Number of inpatients	Total number of inpatients, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 8	Number of clinical inpatient cases of malaria	Number of clinical inpatient cases of malaria, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 9	Number of blood slides examined for malaria from inpatients	Total number of blood slides examined for malaria from inpatients, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	

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Sentinel Site Indicators – Inpatients		Definition	Data source	Dates for data collection	Frequency of reporting	Responsible party
Sentinel Site 10	Number of slide-confirmed inpatient cases of malaria	Number of slide-confirmed inpatient cases of malaria, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 11	Total number of RDTs examined for malaria from inpatients	Total number of RDTs examined for malaria from inpatients, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 12	Number of RDT-confirmed inpatient cases of malaria	Number of RDT – confirmed inpatient cases of malaria, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 13	Number of inpatient anemia cases <5	Number of anemia cases among inpatients <5	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 14	Number of inpatient deaths	Number of inpatient deaths, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 15	Number of inpatient slide-confirmed malaria deaths	Number of inpatient slide-confirmed malaria deaths, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 16	Number of inpatient RDT confirmed malaria deaths	Number of inpatient RDT confirmed malaria deaths, for <5 and 5+ separately	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site Indicators – IPTp		Definition	Data source	Dates for data collection	Frequency of reporting	Responsible party
Sentinel Site 17	Number of pregnant women who received IPTp-1	Number of pregnant women who received IPTp-1	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 18	Number of pregnant women who received IPTp-2	Number of pregnant women who received IPTp-2	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	
Sentinel Site 19	Total number of pregnant women who attended first ANC visit	Total number of pregnant women who attended first ANC visit	<i>Sentinel sites</i>	<i>On-going</i>	<i>Monthly</i>	

